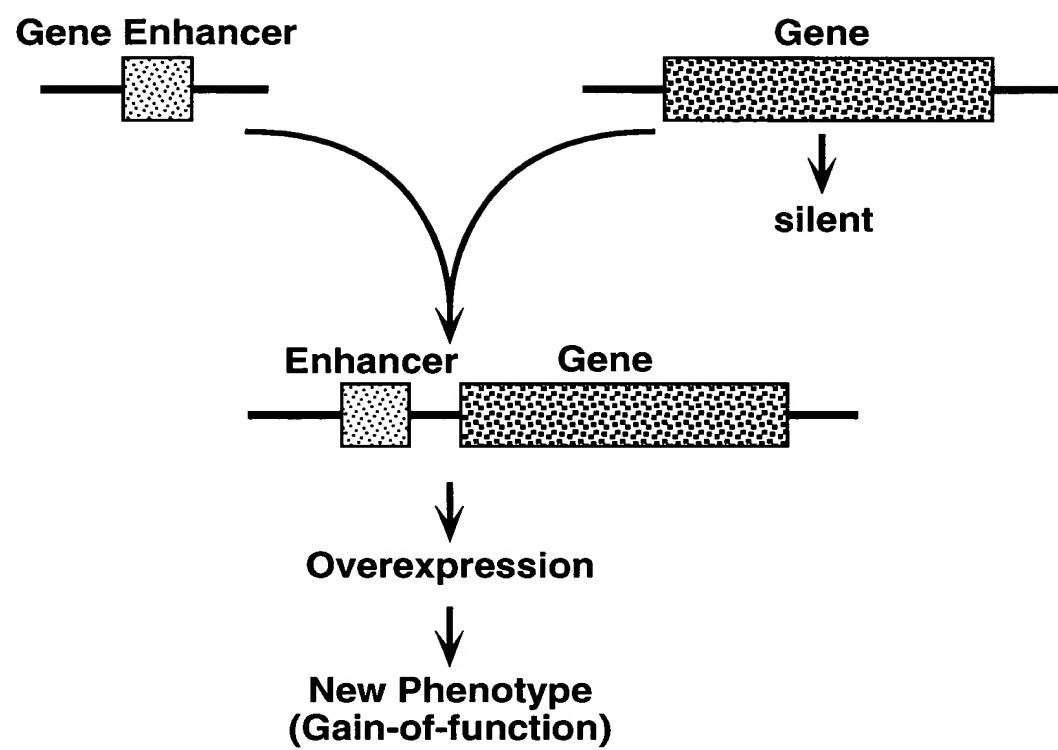


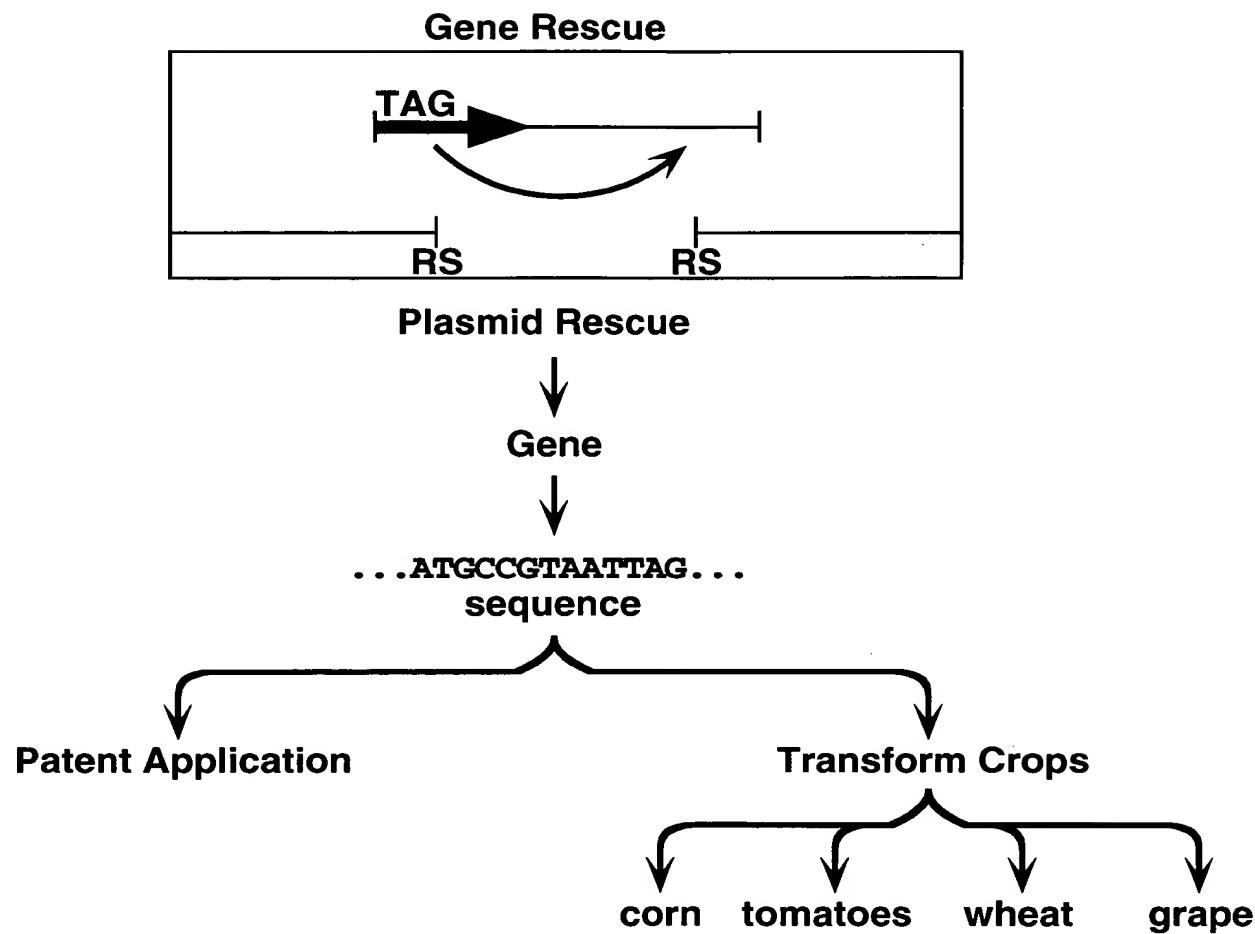
**Fig. 1**

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTHAN		



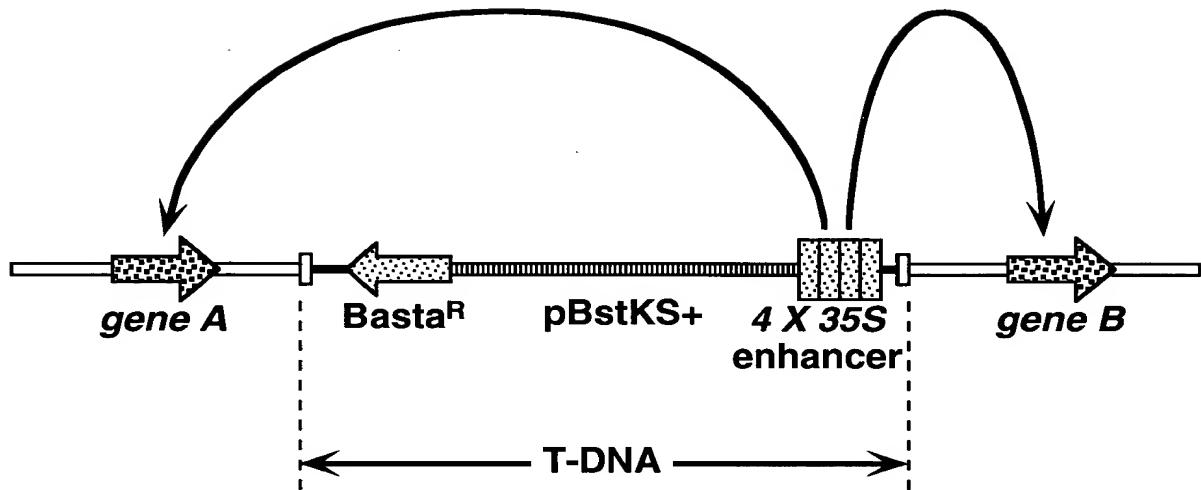
**Fig. 2**

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		



**Fig. 3**

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		



**screened 6/98: 25,000**

**confirmed dominant mutants:**  
**flowering-time: 4**  
**morphology: 25**

500 plants → 25,000 independent transformants → 2-5 novel genes/trait screened

1,000 plants → 20,000 independent transformants → 4-10 novel genes/trait screened/quarter

8,000 plants → 200,000 independent transformants → 16-40 novel genes/trait screened/year

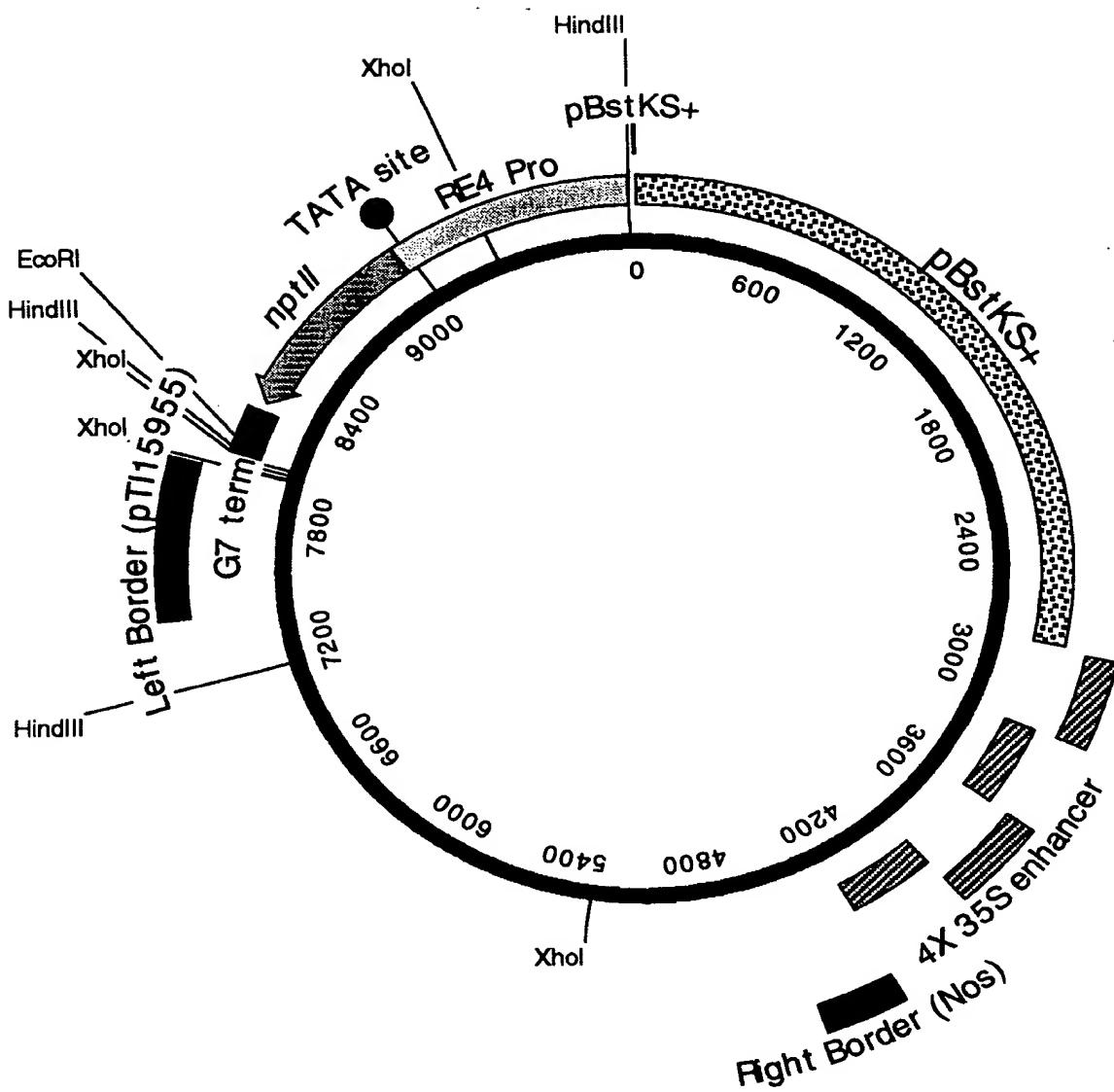
**Fig. 4**

APPROVED BY DRAFTSHAN	O.G. FIG.
	CLASS      SUBCLASS

CAACATGGTGGAGCAGCACACTCTCGTCTACTCCAAGAATATCAAAGATA  
**AGTC**T CAGAACGAGCAGAGGGCTATTGAGACTTTCAACAAAGGGTAATATC  
 GGGAAACCTCCTCGGATTCCATTGCCAGCTATCTGTCACTTCATCGAAAG  
 GACAGTAGAAAAGGAAGATGGCTTCTACAAATGCCATCATTGCGATAAAGG  
 AAAGGCTATCGTTCAAGATGCCTCTACCGACAGTGGTCCAAAGATGGACC  
 CCCACCCACGAGGAACATCGTGGAAAAAGAAGACGTTCCAACCACGTCTTC  
 AAAGCAAGTGGATTGATGT**GATATCTAGATCCC**  
 CAACATGGTGGAGCAGCACACTCTCGTCTACTCCAAGAATATCAAAGATA  
**AGTC**T CAGAACGAGCAGAGGGCTATTGAGACTTTCAACAAAGGGTAATATC  
 GGGAAACCTCCTCGGATTCCATTGCCAGCTATCTGTCACTTCATCGAAAG  
 GACAGTAGAAAAGGAAGATGGCTTCTACAAATGCCATCATTGCGATAAAGG  
 AAAGGCTATCGTTCAAGATGCCTCTACCGACAGTGGTCCAAAGATGGACC  
 CCCACCCACGAGGAACATCGTGGAAAAAGAAGACGTTCCAACCACGTCTTC  
 AAAGCAAGTGGATTGATGT**GATATCTAGATCCC**  
 CAACATGGTGGAGCAGCACACTCTCGTCTACTCCAAGAATATCAAAGATA  
**AGTC**T CAGAACGAGCAGAGGGCTATTGAGACTTTCAACAAAGGGTAATATC  
 GGGAAACCTCCTCGGATTCCATTGCCAGCTATCTGTCACTTCATCGAAAG  
 GACAGTAGAAAAGGAAGATGGCTTCTACAAATGCCATCATTGCGATAAAGG  
 AAAGGCTATCGTTCAAGATGCCTCTACCGACAGTGGTCCAAAGATGGACC  
 CCCACCCACGAGGAACATCGTGGAAAAAGAAGACGTTCCAACCACGTCTTC  
 AAAGCAAGTGGATTGATGT**GATATCTAGATCCC**  
 CAACATGGTGGAGCAGCACACTCTCGTCTACTCCAAGAATATCAAAGATA  
**AGTC**T CAGAACGAGCAGAGGGCTATTGAGACTTTCAACAAAGGGTAATATC  
 GGGAAACCTCCTCGGATTCCATTGCCAGCTATCTGTCACTTCATCGAAAG  
 GACAGTAGAAAAGGAAGATGGCTTCTACAAATGCCATCATTGCGATAAAGG  
 AAAGGCTATCGTTCAAGATGCCTCTACCGACAGTGGTCCAAAGATGGACC  
 CCCACCCACGAGGAACATCGTGGAAAAAGAAGACGTTCCAACCACGTCTTC  
 AAAGCAAGTGGATTGATGT**GATATCTAGATCCGAAACT**

Fig. 5

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		



**Fig. 6**

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

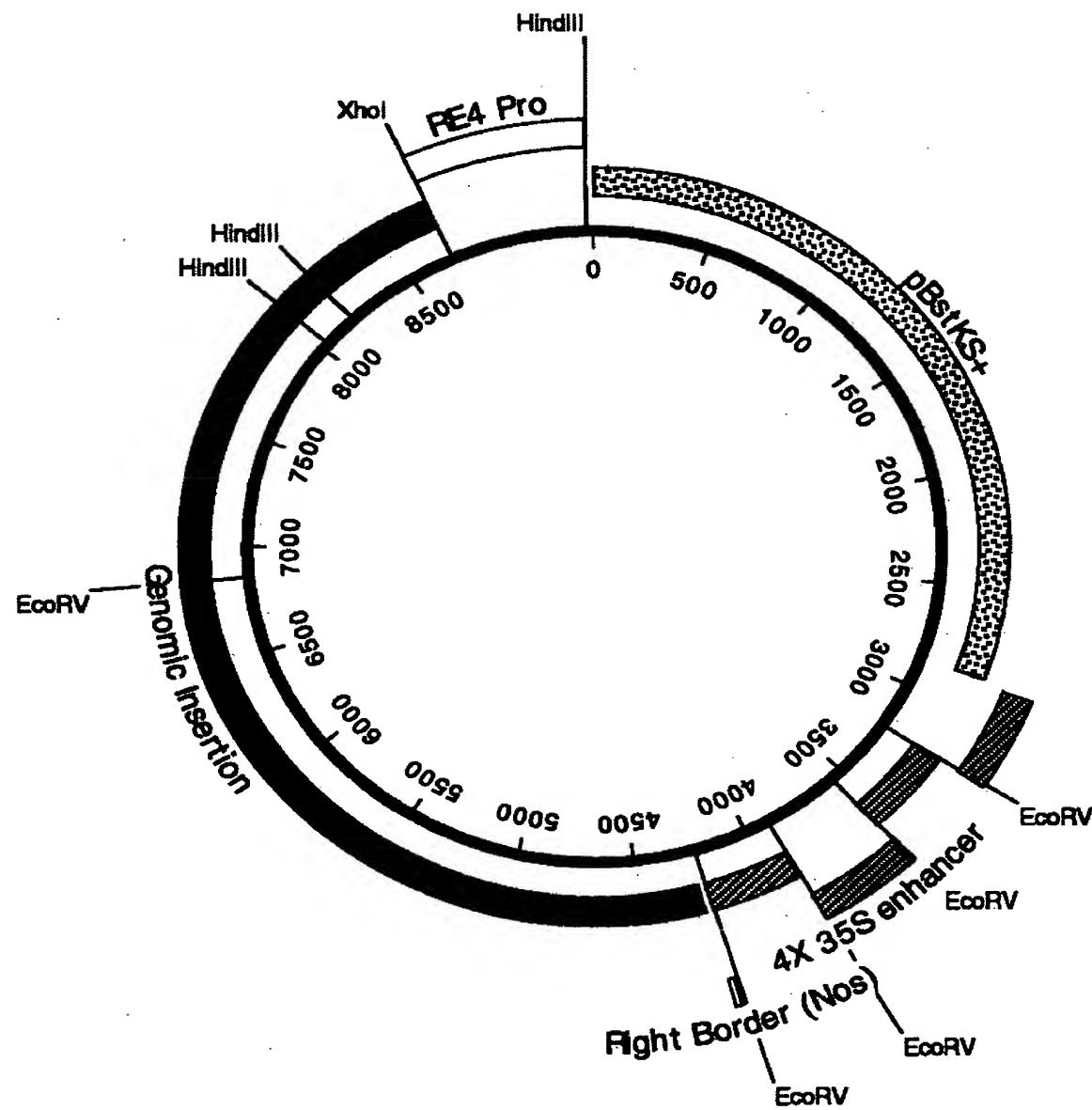


**Fig. 7A**



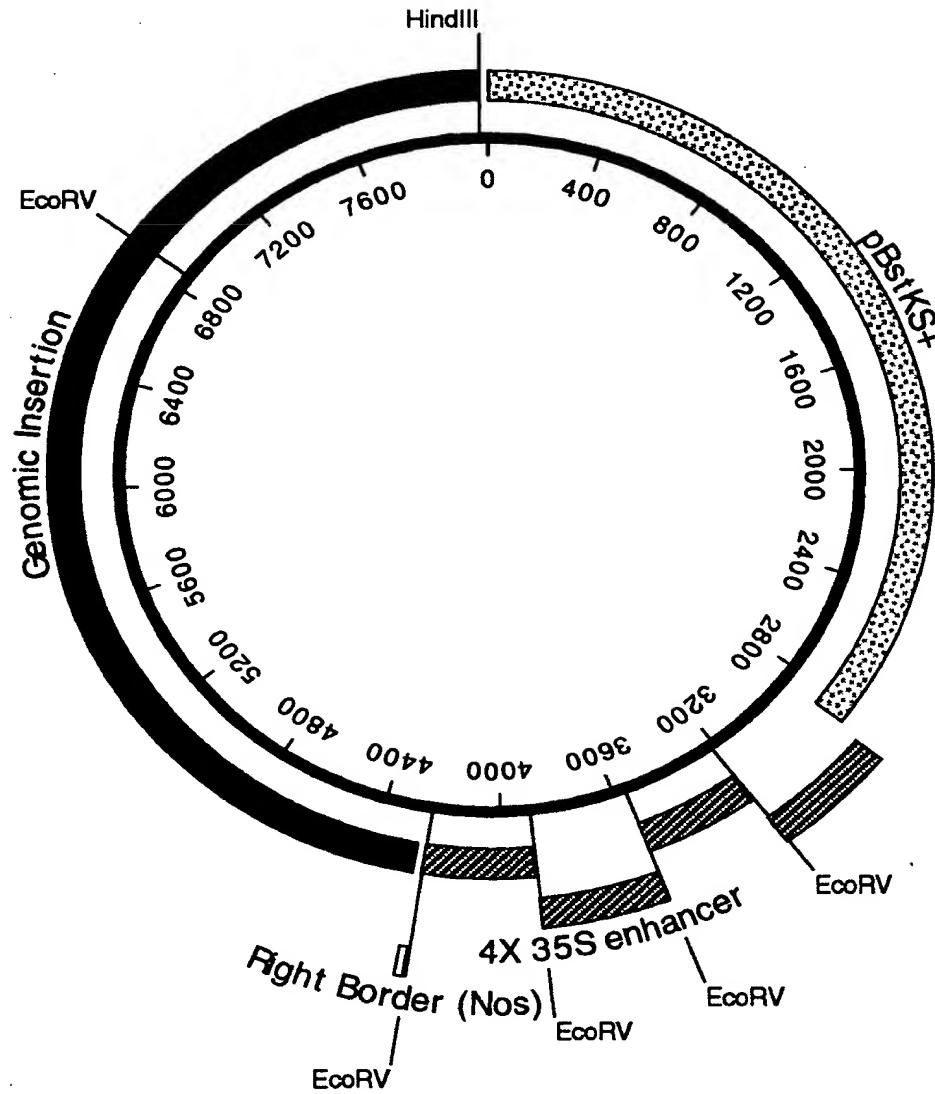
**Fig. 7B**

APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	



**Fig. 8A**

APPROVED	D.G. FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS



**Fig. 8B**

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

GTCGTCAGTAATAATGTTTCTGGTATCGAACATCAGAGAAAGAAGTAAAATTAAACTG  
 TATCAACACCGTCTACAAACTTGATTTCTCATGTGAAAGGCCTCAAAGAGGGGAAGAAGAA  
 GAGAAAGATTAACGAAAAGACATCAAACGTTCACCTTGCAGCAGTCCATTCTCTTAA  
 TGCCAGCAGCACCATCCTCCTCAACAACGCTTAATCTGCATGAAAGGCCACAAGTAAAAG  
 ACTAGCAAATGAGGTGCAACTACATTGCTCGGACTCTATAAAAATGTTGTTGCCCTGTGCG  
 GATCCTACTTTGGAGGATCTGACATGCTCCAATTCAACTTAATCTTCACGGAAAGTCCAT  
 TACCCCCCTGAACGTTTTTTATATATTAGGTACCCCTATAGGCTAATGTGTCACAAACGT  
 GAACTCACCTCCGTGAGGGATGTAAGAACCAAATAATGTTACATCTGGAGTCCAAATAAGC  
 TTCCAATGTGATTTATTTGGTTCTTACGCGCTCACGGAGGTGAGTTCACGCTTGTGGACA  
 CACCAGCCTATAAGGATGAACAAATAATAAAAAGAAAAGTTCCGGGTAATAGGACTCCGT  
 AAAGATTTGCACTGGAAATACGGCTAAAGCTGAGGGTGCATTGACCATTTCTCAAGGA  
 TATTAGGAACAATAAGGGACTTCAACATTGGCCAACCTATTATATTATTTCTTTTATGAC  
 TGAGAAGTTGAGCTGAAGCCACCCCTCAGGTCTTTCAACTAAATACTAGACTTTGTCGT  
 TCACTTGGCATTGGGATCAAACCTTGTGACCGAAAAGACACAAGTCCCTTCAATCTGGGTTAA  
 TTTATTTTCTGTTCTGTCGCCCACCTTTGAATATTATCTTTTATTAAACTAAAAAA  
 ATATCAAATAAGTTGGAAACACAATAGGAATATTCTAGTTTACATTGAGGATAACATC  
 ACTTTTATTGGTAATATGACATGAGATGAGCTAAATGGAGAAATAGCGTCAGTTATGATC  
 CATATAGACAAACCAACTCTCTGGACTAAGACGTAGTTATTGAGTAAAGATCACACAGG  
 ACCTGGGTAGAGAGACTGATCCTCAACAACATAATTGATTAAGTTGGAGAAACTTCAAA  
 ACTTATGCTATTGACTCTAAATTAGATAAGATCTTAACCACACTAGAACTCAGCAA  
 ACTGATCTACTTACAGCATGGTCAGAGTAAGTAGCTAAGGCCCTACATCAACTTGATTGATT  
 TTTTACCTACAAACTATAGAGTGTGAAAGAACTACATTGAGCACATAGTATGCAA  
 ATTTCTTCAGATCGGAGTCAAATATTGCTTATTAGGGATTTAAGGACTATTGACT  
 ATTTTAAATGAGTCGAATATTGACTTAGAATAATTATTACTAACATATTAGGATTCCAGGAGAGATTG  
 TTCACACCTCATTCTGGACGTCCTGTGTAAGGAGCAGGTTACTCGGGTAGAACTTAGCATAG  
 CATCTGACATATGGACTGATGGTCAGTCGTTGGACCATTCAGGCCAATCCATGTATATAAT  
 GTTGTTCATTATGCTTACTCTTTTAGACATAGGGTCATCGATACATCATTGACT  
 GGCAGATGTATCAAACCTAGAAGAAAAGGTGAATGTTACTTTTATATGATTAAATACTT  
 GATCAAACATCTATGGTATAGATTCTGAATGAAAACATGCCCTACCTTAATCAGTTCTTGG  
 CAGGCGGAAGATATTTCTCGTCATCATATCTTCTCCACACTGCAGATTGTCCT  
 GCTTCTCTACTGGCAAGATCGAACACTGTCCTACAGAACATCCAAGAAGAACAT  
 GCATTAATGGCATCGAACATATGTTGATTGCCATCTTAGACTCGTGTGGAATGTGGAA  
 TGATTAACCTGGTCTGAAAACAAAGTTGTTATTGAAATCAACTACTCAAGTTGG  
 AAGCGGTTTGCACTGGCAACTTAGAGAAAACAGTGCATGTTTCATAACATTCTAGTAGAA  
 ACTAGTTCTAATAGTTGATATATGCCAATAAAACACCTCTATAGTCACACCCATGTCAA  
 GTCACCTATTAAAGCATTACAATAGAGTTCACATGATTTCACCTGCTAAAGAAAATAAAC  
 TTGGGCCTAACTCAACTTCAAAAGCTAGTTATGCAATGAGGATTGCCAAACCATATAAG  
 AGACTAATTGAACTATCCCCATATATGTTGAGGGACTTCAACACTCCCGCATGCCTAGG  
 AATTGGAGCATGGACAACATAATATGAGGGCAAACATCGGGTAAACCAAGAAC  
 CAGGACGGGTGCAAAAGACATAATCTTTTAGGTACATTACAATGCTGGATA  
 CAAGTAAAGGTGATTGCTT

**Fig. 9A**

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

ACTTTTTTTTTGATTTTTGCTTCAAATTAAGATTAATCAACAAACCCACTTTCCCAG  
 CAACCAAACAAAGTGAATTCCATTCTAATCAATGTTAACCCATTCTGAGTGCAAAGAC  
 ATGATCTTTGAGGTACATAAAAAGATTAAGAAGAACATTAAACAAAGGTTAATTTC  
 TGATTGAGTGTAAAGAGTAATCAAAATTCCAACTAGTCCTCTAATTCTGAACACTACTCC  
 AATTTTCCAAACAAAACGAATAAAGTGAAGAACCATTTCAATTATTTGCTGATCCATT  
 TGGGTGCAAAACATCATTAGGTACATTCAATCATGGG  
 CGGAGTTAGAAACCAATTACCAATAGTTTGCTCAAATAGCTACAACAACTACCTAGTGT  
 AATCTCACGAATGGGTTGGGGCCCTACCTGGGAGGCCTTGCTCAGATTGTGTATT  
 GCTAAGAAATTCAACATACATTATGTTAAAACCAAATATTGGTCGTTCTAAATCATGGC  
 TCTCTAATTCAATGCCGGATACAAGGGTGAUTGACTGACTGCTTCTTTCTCTTTAATG  
 TTCTTGCTTAAACAAACTAATCAACATCCCCAAAGACCCAACTAGTCCTTCTGTT  
 TTGAACCACACCCAGTTCCACCACCCAAACAAAGTAAAATCCATTACCTGGTCAAA  
 ACATGACTTTTGAGGTACAGTCAAATCTGGATAAAAGTAAAGGTGTTGTTCTTT  
 CCAATGTTATGCTTAAAGTTAAGATTAATCAACATCCTCAATCACTCCAAACATTCTGAT  
 TCAAAGACATTATCTTGATCTACATACAAGTAAAGGTGATTGCTTTCAATGTTCTGC  
 TCAAAATCATAAAAATTAAATCAACATCCCCAATTAGTCCTCAGTTGAACTACACCCAAATT  
 TTCCCAACAAACAAACAAAGTAAAATCCATTCCAAACCATTCTGTTCAAAGACATGA  
 TCTTTTACTTTAGTTACATCCAAAGTAAAGATAATTGATTTCACATCCCCAATCAGT  
 CCTCCAGTTCTAGCCTACACCCATTCCCCCACCACCAACAAACAAAGTAAAATCCATT  
 CTTGGTCAAAACATGATTTTGAGGTAAAATAACAAGAAACAAGAAGAGAGGGTAC  
 CTGAGTAATTCACTGTTCAATTAGATGAGAAATTGAGTCATGGTCAAAGCCTTAAGTAAACA  
 GCTAAACCCATCACCATAACAAGACCAAGTCCAAAATATTGCTTCTCTCCATC  
 TTCTCCTCTTCTCCAAACCTCTGATTGCTGATTCTAGGTTCTCAAAAAAAAAAAA  
 ACTTAACTACTGTCGTAATTGGGATTAATGATGGTAATTGGTTAATTGACTAAATA  
 AGATATTAAAGGTAATTGGTAATTGATTGGTCATTCTCGAAAGAAAAATTCAAAATTAA  
 ATTATGTTATATTAAATTAAATTAAACAGAAAATTAGATATTCAAAACGATATGAAAA  
 GTATTATAAATTGTAATTGGTATATTATAAAATTAAATCAAACCTCTTATCATTAACT  
 TTAAAAAGAAATAATGACAATATAAGCGGAAGAGTGAGTAATTCTAGTTATGCAACA  
 TTTTTTTTAGTTTACTTTATTAAAGATTTGTTATTATATAATGATAAAGA  
 AAAGATTTTTTTAATTCTGATATTAAAGGGCAAGAGATTCAATCCTCGATATTA  
 TTTATACGGTGTGAAGTAATATTTAATTGTTATGAAA

**Fig. 9B**

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

MFSWCIEHQRKKLKLNCINTVYKLCISHVKGVKEGKKRKINEKTSNVHLLQQVHFLLNASST  
ILLQQLLNLHERPQVKRLANEVQLHCSDSIKMILLPLCRILLEDLTCSKFQLNLHGSPITP

**Fig. 10A**

MGLAVYLRLWTIDYNFSSNETELLRRQFDLASREAMDESAVWRKRYDDEEKISSACQKELIKF  
VGKKNTIKVDVRALATYSDHAE

**Fig. 10B**